

CED 22 FIRE FIGHTING

**SCOPE - I) FIRE FIGHTING EQUIPMENT INCLUDING**

WATER FITTINGS

II) FIRE FIGHTING UNITS

III) FIRE DETECTION AND FIRE ALARM SYSTEMS, AND

IV) HELMETS

LIAISON: ISO/TC 21 EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING

ISO/TC 21/SC 2 (O)

ISO/TC 21/SC 3 (O)

ISO/TC 21/SC 5 (O)

ISO/TC 21/SC 6 (O)

ISO/TC 94 PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT

Sl. No. No. of	IS Number/ DOC Number	Title	Reaffirm	
			Date	Amd.
STANDARDS PUBLISHED				
1	IS 884:1985	Specification for first-aid hose reel for fire fighting (first revision)	Nov 2010	3
2	IS 901:1988	Specification for couplings, double male and double female, instantaneous pattern for fire fighting (third revision)	Jul 2008	
3	IS 902:1992	Specification for suction hose couplings for fire fighting purposes (third revision)	Dec 2007	2
4	IS 903:1993	Specification for fire hose delivery couplings, branch pipe, nozzles and nozzlespanner (fourth revision)	Jul 2008	2
5	IS 904:1983	Specification for 2-way and 3-way suction collecting heads for fire fighting purposes (second revision)	Nov 2010	1
6	IS 905:1980	Specification for delivery breechings, dividing and collecting instantaneous pattern for fire fighting purposes (second revision)	Dec 2007	
7	IS 906:1988	Specification for revolving branch pipe for fire fighting (third revision)	Nov 2010	
8	IS 907:1984	Specification for suction strainers, cylindrical type for fire fighting purposes(second revision)	Nov 2010	
9	IS 908:1975	Specification for fire hydrant, stand post type (second revision)	Nov 2010	1
10	IS 909:1992	Specification for underground fire hydrant, sluice valve type (third revision)	Dec 2007	
11	IS 910:1980	Specification for combined key for hydrant, hydrant cover and lower valve (second revision)	Dec 2007	1
12	IS 926:1985	Specification for fireman's axe (second revision)	Nov 2010	
13	IS 927:1981	Specification for fire hooks (second revision)	Dec 2007	2

\* INDICATES STANDARDS UNDER REVISION

/ INDICATES DUAL NUMBER STANDARDS

\*\* INDICATES STANDARDS TO BE REVISED

| INDICATES EQUIVALENT STANDARDS

14	IS 928:1984	Specification for fire bells (second revision)	Nov 2010	
15	IS 937:1981	Specification for washers for water fittings for fire fighting purposes (second revision)	Dec 2007	2
16	IS 939:1977	Specification for snatch block for use with fibre rope for fire brigade use (first revision)	Dec 2007	
17	IS 941:1985	Specification for blower and exhauster for fire fighting (second revision)	Nov 2010	2
18	IS 942:1982	Functional requirements for 275 l/min portable pump set for fire fighting (second revision)	Nov 2010	
19	IS 943:1979	Functional requirements for 680-l/min trailer pump for fire brigade use (second revision)	Jul 2008	2
20	IS 944:1979	Functional requirements for 1800-l/min trailer pump for fire brigade use (second revision)	Dec 2007	1
21	IS 947:1985	Functional requirements for towing tender for trailer fire pump for fire brigade use (first revision)	Dec 2007	1
22	IS 948:1983	Functional requirements for water tender type 'A' for fire brigade use (second revision)	Nov 2010	1
23	IS 949:2012	Functional requirements for emergency (rescue) tender for fire brigade use (second revision)	Nov 2010	
24	* IS 950:1980	Functional requirements for water tender, type B for fire brigade use (second revision)	Dec 2007	2
25	IS 951:2003	Functional requirements for crash tender for air fields (fourth revision)	Jul 2008	
26	IS 952:2012	Specification for fognozzle for fire brigade use (first revision)		1
27	IS 955:1980	Functional requirements for dry powder tender for fire brigade use (150 kg capacity) (first revision)	Jul 2008	1
28	IS 956:2004	Functional requirements for rescue tender for air fields (second revision)	Jan 2010	
29	IS 957:1967	Specification for control van for fire brigade use	Nov 2010	3
30	IS 1941(Part 1):1976	Functional requirements for electric motor sirens: Part 1 AC, 3 Phase 50 hz, 415 volts type (second revision)	Dec 2007	
31	IS 2097:2012	Specification for foam making branch pipe (first revision)		1
32	IS 2175:1988	Specification for heat sensitive fire detectors for use in automatic fire alarmsystem (second revision)	Nov 2010	
33	IS 2189:2008   ISO/TR 7240-14	Code of practice for selection, installation and maintenance of automatic fire detection and alarm system (fourth revision)		
34	IS 2190:2010   ISO 3941	Selection, installation and maintenance of first-aid fire extinguishers - Code of practice (fourth revision)		

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35	IS 2546:1974	Specification for galvanized mild steel fire bucket (first revision)	Nov 2010	2
36	IS 2696:1974	Functional requirements for 1125-l/min light fire engine (first revision) (Superseding IS 938)	Dec 2007	2
37	IS 2745:1983	Specification for non-metal helmet for firemen and civil defence personnel (second revision)	Nov 2010	3
38	IS 2871:2012	Specification for branch pipe, universal for fire fighting purposes (first revision)		7
39	IS 2878:2004	Specification for fire extinguisher, carbon dioxide type(portable and trolley mounted ) (third revision)	Jan 2010	7
40	IS 2925:1984   ISO 3873	Specification for industrial safety helmets (second revision)	Nov 2010	4
41	IS 2930:1980	Functional requirements for hose laying tender for fire brigade use (first revision)	Dec 2007	1
42	IS 3582:1984	Specification for basket strainers for fire fighting purposes (cylindrical type) (first revision)	Nov 2010	
43	IS 3744:1985	Specification for hose binding machine (first revision)	Nov 2010	
44	IS 3844:1989	Code of practice for installation and maintenance of internal fire hydrants and hose reels on premises (first revision)	Nov 2010	
45	* IS 4151:1993	Specification for protective helmets for motorcycle riders (third revision)	Jul 2008	2
46	IS 4308:2003	Specification for dry chemical powder for fighting B and C Class fires (second revision)	Jul 2008	4
47	IS 4571:1977	Specification for aluminium extension ladders for fire brigade use (first revision)	Nov 2010	5
48	IS 4643:1984	Specification for suction wrenches for fire brigade use (first revision)	Nov 2010	
49	IS 4861:1984	Specification for dry powder for fighting fires in burning metals (first revision)	Nov 2010	1
50	IS 4862(Part 1):1986	Specification for portable fire extinguishers for aircraft : Part 1 Halon 1211 Type (first revision)	Nov 2010	3
51	IS 4927:1992	Specification for unlined flax canvas hose for fire fighting (first revision)	Dec 2007	2
52	IS 4928:1986	Specification for delivery valve for centrifugal fire pump outlets(first revision)	Nov 2010	
53	IS 4947:2006	Specification for gas cartridges for use in fire extinguishers (third revision)	Feb 2012	1
54	IS 4989:2006	Foam concentrate for producing mechanical foam for fire fighting - Specification (Tthird revision) [Amalgamating IS 4989(Part 1):1985, IS 4989(Part 2):1984 and IS 4989(Part 3):1987]	Feb 2012	1

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55	IS 4989(Part 4):2003	Specification for multipurpose aqueous film forming foam liquid concentrate for extinguishing hydrocarbon and polar solvent fires	Jul 2008	2
56	IS 5131:2002	Specification for dividing breaching with control for fire brigade use (second revision)	Dec 2007	
57	* IS 5290:1993	Specification for landing valves (third revision)	Jul 2008	6
58	IS 5486:1985	Specification for quick release knife (first revision)	Nov 2010	
59	IS 5505:1985	Specification for multi-edged rescue axe (non-wedging) (first revision)	Nov 2010	
60	IS 5612(Part 1):1977	Specification for hose-clamps and hose-bandages for fire brigade use: Part 1 Hose-clamps (first revision)	Dec 2007	1
61	IS 5612(Part 2):1977	Specification for hose-clamps and hose bandages for fire brigade use: Part 2 Hose bandages (first revision)	Dec 2007	
62	IS 5714:1981	Specification for hydrant, stand-pipe for fire fighting (first revision)	Dec 2007	1
63	IS 5888:1970	Code of practice for design and construction of fire service drill-tower	Nov 2010	
64	IS 5896(Part 1):1970	Code of practice for selection, operation and maintenance of special fire fighting appliances: Part 1 Combined foam and CO2 crash tender	Nov 2010	
65	IS 5896(Part 3):1975	Code of practice for selection, operation and maintenance of fire fighting appliances: Part 3 Turntable ladders	Dec 2007	
66	IS 6026:1985	Specification for hand-operated sirens (first revision)	Nov 2010	
67	IS 6067:1983	Functional requirements for water tender type 'X' for fire brigade use (first revision)	Nov 2010	
68	IS 6070:1983	Code of practice for selection, operation and maintenance of trailer fire pumps, portable pumps, water tenders and motor fire engines (first revision)	Nov 2010	
69	IS 7673:2004   ISO 8421-1	Glossary of terms for fire fighting equipment (first revision)	Jul 2008	
70	IS 7692:1993	Specification for headforms for testing of helmets (first revision)	Jul 2008	
71	IS 8090:1976	Specification for couplings, branch pipe, nozzle, used in hose reel tubing for fire fighting	Nov 2010	1
72	IS 8096:1992	Specification for fire beaters (first revision)	Dec 2007	
73	IS 8149:1994	Functional requirements for twin CO2 fire extinguishers (trolley mounted) (first revision)	Nov 2010	2
74	IS 8423:1994	Specification for controlled percolating hose for fire fighting (first revision)	Nov 2010	3

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75	IS 8442:2008	Functional requirements for stand post type water monitor for fire fighting (first revision)		
76	IS 9562:1980	Specification for non-metal helmet for police force	Dec 2007	5
77	IS 9668:1990	Code of practice for provision and maintenance of water supplies and fire fighting (first revision)	Nov 2010	
78	IS 9695:1980	Methods of sampling of helmets	Nov 2010	
79	IS 9972:2002	Specification for automatic sprinkler heads for fire protection service (first revision)	Dec 2007	
80	* IS 9973:1981	Specification for visor for scooter helmets	Dec 2007	
81	IS 9995:1981	Specification for visor for non-metal police and firemen's helmets	Dec 2007	1
82	IS 10460:1983	Functional requirements for small foam tender for fire brigade use	Nov 2010	1
83	IS 10658:1999	Specification for higher capacity dry powder fire extinguisher (trolley mounted) (first revision)	Nov 2010	8
84	IS 10993:1984	Functional requirements for 2000-kg dry powder tender for fire brigade use	Nov 2010	1
85	IS 11101:1984	Specification for extended branch pipe for fire brigade use	Dec 2007	
86	IS 11108:1984	Specification for portable fire extinguisher halons-1211 type	Nov 2010	4
87	IS 11360:1985	Specification for smoke detectors for use in automatic electrical fire alarm system	Nov 2010	
88	IS 11833:1986	Specification for dry powder fire extinguisher for metal fires	Dec 2007	4
89	IS 12717:1989	Functional requirements of fire fighting equipment - High capacity portable pumpset (1100-1600 L/min)	Nov 2010	1
90	IS 12796:1989	Specification for fire rake	Nov 2010	
91	IS 12805:1989	Tool Mcleod for fighting forest fires	Nov 2010	
92	IS 12835(Part 1):1989   ISO 7203-1	Code of practice for design and installation of fixed foam fire extinguishing system: Part 1 Low expansion foam	Nov 2010	
93	IS 12853:1989	Specification for pulaski tool for forest fire	Nov 2010	
94	IS 12859:1989	Specification for brush hook for forest fire	Nov 2010	
95	IS 12861:1989	Specification for double bit axe for forest fire	Nov 2010	

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96	IS 12862:1989	Specification for fire fighting shovel for forest fires	Nov 2010	
97	IS 13039:1991	Code of practice for external hydrant systems provision and maintenance	Nov 2010	
98	IS 13385:1992	Specification for fire extinguisher- 50 litre capacity wheel mounted water type (Gas Cartridge)	Dec 2007	8
99	IS 13386:1992	Specification for fire extinguisher 50 litre capacity mechanical foam type	Dec 2007	10
100	IS 14609:1999   ISO 7202	Specification for dry chemical powder for fighting ABC Class fires	Jan 2010	5
101	IS 14851:2000	Code of practice for maintenance of fire hose	Nov 2010	
102	IS 14933:2001	Specification for high pressure fire fighting hose	Nov 2010	
103	IS 14951:2001	Specification for fire extinguisher, 135 litre capacity mechanical foam type	Nov 2010	2
104	IS 15051:2001	High pressure fire hose delivery couplings - Specification	Dec 2007	
105	IS 15105:2002   ISO 6182-1	Design and installation of fixed automatic sprinkler fire extinguishing systems - Specification	Dec 2007	
106	IS 15220:2002   ISO 7201-1	Specification for halon 1211 and halon 1301 - halogented hydrocarbon - fire extinguishing media for fire protection	Dec 2007	
107	IS 15221:2002   ISO 7201-2	Code of practice for safe handling and transfer procedure of halon 1121 and halon 1301- (halogonated hydrocarbon) - fire extinguishing media	Dec 2007	
108	IS 15222:2002   ISO 5923	Specification for carbon-dioxide as fire extinguishing media for fire protection	Dec 2007	
109	IS 15301:2003	Code of practice for installation and maintenance of fire fighting pump	Jul 2008	
110	IS 15325:2003	Code of practice for design and installation of fixed automatic high and medium velocity water spray system	Jul 2008	
111	IS 15493:2004   ISO 14520-1	Gaseous fire extinguishing systems - General requirements	Jan 2010	1
112	IS 15496:2004	Inspection and maintenance of gaseous fire extinguishing systems - Code of practice	Jan 2010	
113	IS 15497:2004   ISO 14520-12	Gaseous fire extinguishing systems IG 01 extinguishing systems	Jan 2010	
114	IS 15501:2004   ISO 14520-15	Gaseous fire extinguishing systems IG 541 extinguishing systems	Jan 2010	
115	IS 15505:2004   ISO 14520-6	Gaseous fire extinguishing systems - HCFC Blend A extinguishing systems	Jan 2010	

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116	IS 15506:2004   ISO 14520-14	Gaseous fire extinguishing systems - IG 55 - extinguishing systems	Jan 2010	
117	IS 15517:2004   ISO 14520-9	Gaseous fire extinguishing systems - HFC 227ea (Hepta Fluoro Propane)extinguishing systems	Jan 2010	2
118	IS 15519:2004	Water mist fire protection systems - System design, installation and commissioning - Code of practice	Jan 2010	
119	IS 15525:2004   ISO 14520-13	Gaseous fire extinguishing systems - IG 100 extinguishing systems	Jan 2010	
120	IS 15528:2004   ISO 6183	Gaseous fire extinguishing systems - Carbon dioxide total flooding and local application (Sub-floor and in-cabinet), high and low pressure (refrigerated) systems	Jan 2010	
121	IS 15682:2006	Fire fighting vehicle and equipment - Symbols for operator controls and other display	Feb 2012	
122	IS 15683:2006	Portable fire extinguishers - Performance and construction - Specification	Feb 2012	4
123	IS 15811:2008	Long-range water-cum-foam monitor with self-inducting, aspirating and non-aspirating jet and spray/fog nozzle for fire fighting - Specification		
124	IS 15821:2008	Gaseous fire extinguishing system - Physical properties and system design - CF3I Extinguishant		
125	IS 15835:2009	Gaseous Fire Extinguishing Systems HCFC - 125 Extinguishing Systems		1
126	IS 15908:2011	Selection, installation and maintenance of control and indicating equipments for fire detection and alarm system - Code of practice		
127	IS 16018:2012	Wheeled fire extinguisher - Performance and construction - Specification		

#### **FINALISED DRAFTS UNDER PRINT**

1	DOC.CED 22(7765)	Draft Indian Standard Fire Protection - Automatic sprinkler systems - Requirements and test methods for early suppression fast response (ESFR) sprinklers - Specification
2	DOC.CED 22(7571)	Draft Indian Standard on Functional requirements for water tender, Type B for fire brigade use (Third revision of IS 950)
3	DOC.CED 22(7609)	Hazmat vehicle - Specification
4	DOC.CED 22(7617)	Specification for turntable ladder
5	DOC.CED 22(7753)	Gaseous fire - Extinguishing systems - Physical properties and system design FK-5-1-12 extinguishant
6	DOC.CED 22(7766)	Fire Detection and Alarm Systems-Point-Type Smoke Detectors using Scattered Light, Transmitted light or Ionization
7	DOC.CED 22(7767)	Draft Indian Standard Fire deection and alarm systems - Point-type heat detectors

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8	DOC.CED 22(7768)	Fire Detection and Alarm Systems - Multisensor Fire Detectors
9	DOC.CED 22(7769)	Fire Detection and Alarm Systems - Manual Call Points
10	DOC.CED 22(7787)	Chlorinated polyvinyl chloride (Cpvc) pipes for automatic sprinkler fire extinguishing system - Specification
11	DOC.CED 22(7808)	Draft Indian Standard External Hydrant Systems - Provision and Maintenance - Code of Practice

#### **DRAFT STANDARDS ISSUED IN WIDE CIRCULATION**

1	DOC.CED 22(7304)	Specification for protective helmets for scooter and motor cycle riders (fourth revision of IS4151)
2	DOC.CED 22(7585)	Draft Indian Standard specification for landing walls (Fourth Revision of IS 5290)

#### **DRAFT STANDARDS FORMULATED**

1	DOC.CED 22(7310)	Draft Indian Standard Specification for visors of protective helmets for motor cycle riders (first revision of IS 9973)
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